

Web Services Marketplace v1 Functional Specification

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Project Description:

- 15
- Serve 5 key critical business needs
 - Make it trivially easy for all classes of developers to add and edit 3rd party services information and connection points.
 - Maintain a tight degree of item authority on a web services directory for the programmable internet.
 - 20 ○ Provide a billing mechanism that allows developers and businesses to monetize their offerings.
 - Make it trivially easy for developers to find, discover, pay-for, and consume registered services.
 - 25 ○ Provide a web-based interface that allows developers to monitor and review usage associated with their payments/subscriptions/points, including the ability to manage notification options.
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20 **Document Purpose:** This document is the functional specification for the Web
 Services Marketplace Project. This document describes what the project owners
 expect the project to be/consist of and what it is we intend to build. This document
 also describes how the project owners expect certain pieces of functionality to
 25 behave. This document does not intend to describe how certain pieces of
 functionality will be implemented.

Measures of Success:

- 30 • Provide the platform that enables a minimum of service owners to register
 their services in our catalog within the first months of launch.
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- 35 •
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Summary

- I. Make it trivially easy for all classes of developers to add and edit 3rd party
 services information and connection points.
 - 45 a. provide a simple form-based API for developers to list
 their services.
 - b. Services come with terms-of-use and be described using a
 combination of xml and soap.
 - c. Any web accessible service should be able to be used, regardless of
 the markup language and/or format that the information is returned
 50 in. All that is truly necessary is a web address.
 - d. In order for compensation, service owners be an Amazon.com
 customer.

- e. Once a service is registered, given a detail page and be accessible via Search. A Web Service PTD is required.
- f. Services registration could be handled by Amazon.com itself as the merchant of record.
- 5 II. Maintain a tight degree of item authority on a web services directory for the programmable internet.
 - a. Become a UDDI alternative for services all over the web.
 - b. Provide ability for users to alert us to problems and issues with registered services.
 - 10 c. Show similarities and create relational connections between services that return similar information, but from different data repositories.
 - d. Allow Services to be bundled together as a means of creating "new services".
 - 15 e. Provide Alerts and Notification information about usage and outages to service owners and users
- III. Provide a billing mechanism that allows developers and businesses to monetize their offerings
 - a.
 - 20 b. Provide a way for service owners to set their subscription/price at registration phase.
 - c. Provide a way for service owners to adjust their subscription/price after service is registered and in our catalog.
 - 25 d. Provide a way for consumers to pay for access to a registered service, if it is not a free service.
 - e. Provide a way for consumers to pay for "points" that could be used across a plethora of services.
 - 30 f. Provide a way for consumers to be billed monthly or invoiced based upon usage of a single service or all services consumed.
 - g. Provide a way for a service owner to be compensated once their service is consumed or a payment to be compiled at certain thresholds related to a collection of "micropayments".
 - 35 h. Be the ultimate provider and aggregator for paid-for-services online through the exposure of a robust interface to our payment platform.
 - IV. Make it trivially easy for developers to find, discover, pay-for, and consume registered services
 - a. Provide a gui for developers to find services via an enhanced Developer Portal.
 - 40 b. Provide an API to discover registered services through AWS itself.
 - c. Allow consumers, businesses, developers, and Amazon.com itself to pay for registered services as mentioned in III.
 - d. Provide an automated way for services to be described, both for requests and responses, once the service has been registered in our system.
 - 45 e. Provide a way for a developer to combine multiple service data into a single request and have the information described by a dynamically generated Schema and WSDL that they then can download.
 - 50 f. Register all of our major request types as separate services, with separate Schemas and WSDLs to increase awareness and understanding of how our platform works.
 - V. Provide a web-based interface that allows developers to monitor and review usage associated with their payments/subscriptions/points.

- a. Provide a destination where developers can go to review their usage and “recharge” their points, add additional payments, and view most popular services that their peers are using.
- b. Same destination should be there for service owners to review their service usage. Whereas the above is similar to a your account area of the site for consumers, this would be more like associates central for the service owners.
- c. 24/7 Notification and Alerts are benefits

VI.

- a.
- b.
- c.
- d.
- e.
- f.
- g.

VII.

VIII.

- a.
- b.
- c.
- d.
- e.
- f.
- g.

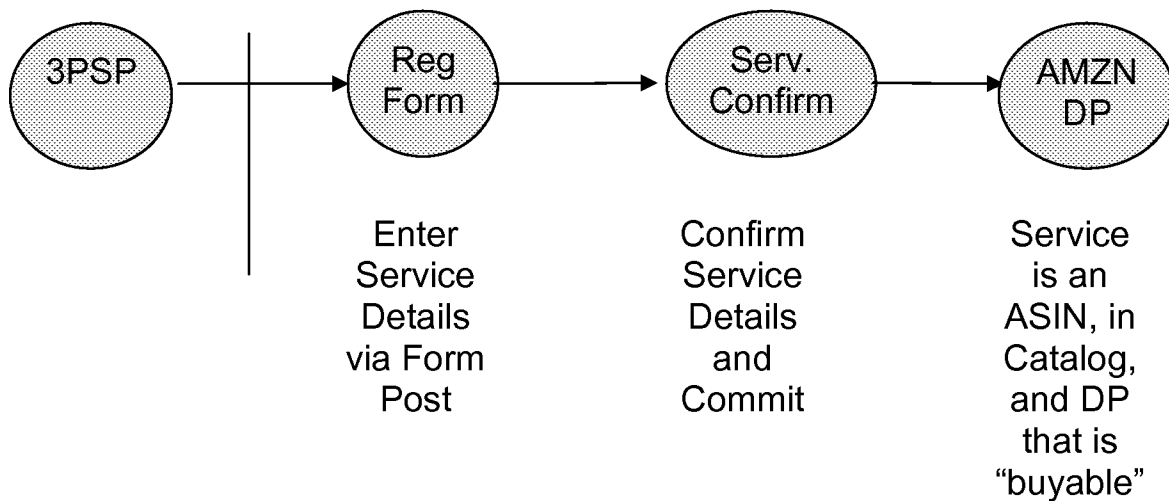
Definition of Terms [selected]

- **EZDPC** – Stands for Easy Detail Page Creation.
Allows 3rd Party sellers and merchants to create ASINs that can be displayed on our website via detail pages and indexed in our catalog.
- **TPC** - Stands for Third Party Content Service. Allows internal services to query it in order to retrieve data from external websites given an xml document which describes how to call the third party website.
- **AWS** – Stands for Amazon.com Web Services. Collection of APIs which allow external developers to access our internal services via SOAP and XML/HTTP.
- **Billing Collector** – Takes data from AWS about who has made a request, how much to charge, and when to charge.

- **Access Controller** – Database controller that queries and updates database entries as a means of metering and restricting access to registered services. It also logs usage and would be used to provide real-time information to service owners and consumers through a simple API that can be exposed via AWS.
- **CAMPS** - Stands for Customer Account Management Payment Server. CAMPS is a payment server to charge a developer for using a service.
- **PTS** – Payment Transaction Service. A generic name for the set of software, machines and scripts that constitute Amazon.com's proprietary credit card processing system.
- **CSS** – Customer Self Service, otherwise known as Your Account. This project converted Your Account content templates, Obidos code, and business logic to Gurupa and using OMS. Project is described as CSSOMS
- **3PW(s)** – Third Party Websites. Can be Associates, Developers, or merchant websites.
- **3PSP(s)** – Third Party Service Providers. Developers or companies that have created a service that they would love to monetize.
- **Subs** – Subscriptions.
- **REST** – XML/HTTP. we use REST as a better way of describing that we're sending an xml response back to the requestor, based upon a GET or POST.
- **SOAP** - Simple Object Access Protocol. AWS understands this protocol, which allows developers to make requests using .Net, NuSoap, CapeScience, and a host of other off-the-shelf products.
- **PTD** – Product Type Definition: information required to launch a new Category on the website.
- **YA** – Your Account.
- **Cache** – Shortened form of WebCache. Repository for temporary data.
- **3PP** – Otherwise known as E-Pay. E-Pay is a database that stores third-party payments and rules. 3PP is the web interface to this database. The interface is XML-based and accessible from AWS currently.
- **CMS** – Customer Master Service. Provides an interface to customer information stored in our CUST databases. CORBA based, so no direct connection from AWS. We connect to it via ECOS.
- **ECOS** - ECOS is a pubsub based application that provides asynchronous access to the CORBA based Customer Master service.
- **Slots** - Sponsored Results Service that launched in 2001.
- **Offerings** – Various third party merchants, including Amazon.com, may want to sell the same ASIN. In this scenario, per item sold by a particular merchant, we provide an offering ID for further tracking and categorization purposes.
- **ASIN** – Amazon Standard Item Number. Every item that is sold at Amazon.com, fulfilled by Amazon.com or by featured merchants, mvp, and misc is assigned one of these numbers.

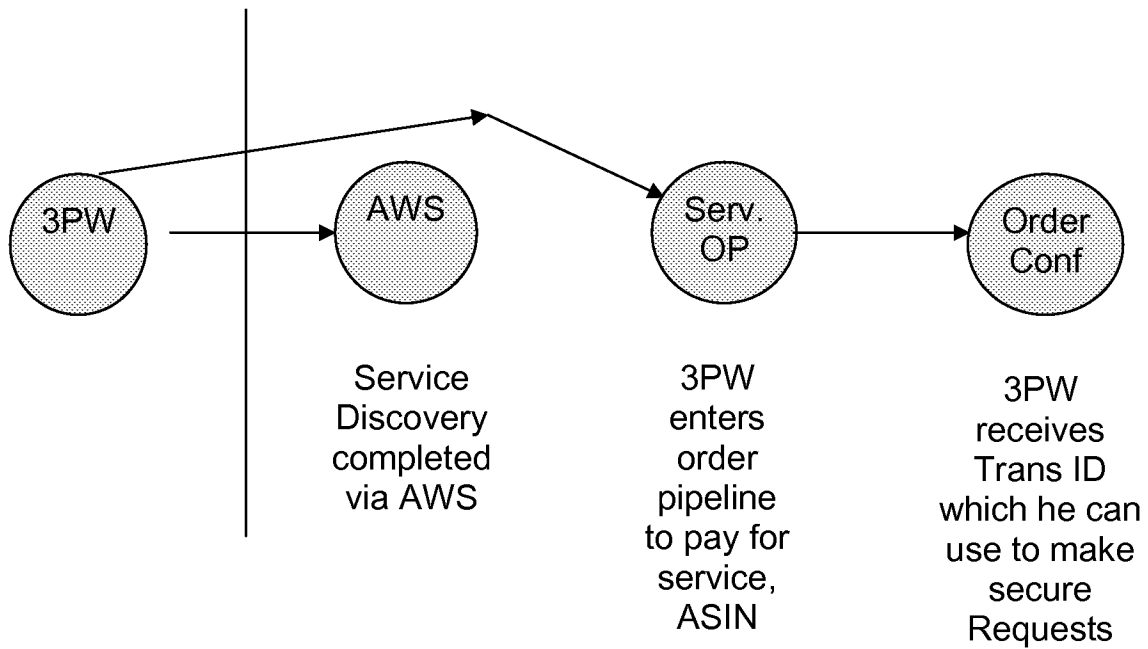
- **TransID** – Transaction ID or Order Number. Every transaction on our site is given one of these numbers for tracking purposes. Customers typically receive their transaction ID via email.
- **HTTPS** – Secure encrypted way of communicating with a website or service.

A. High Level Diagram of Registration and System Calls



Summary:

- I. 3PSP visits Amazon.com and uses a GUI to enter Service details into a form. The service details describes what the service is, has editorial information, includes terms of use, and price per request information.
- II. 3PSP receives a confirmation message/page from Amazon explaining whether or not his or her service has been accepted. The message should contain the ASIN and/or information on how soon the service can be used by developers.
- III. 3PSPs and 3PWs can find, discover, and buy subscriptions for the registered service via our website and via our AWS API

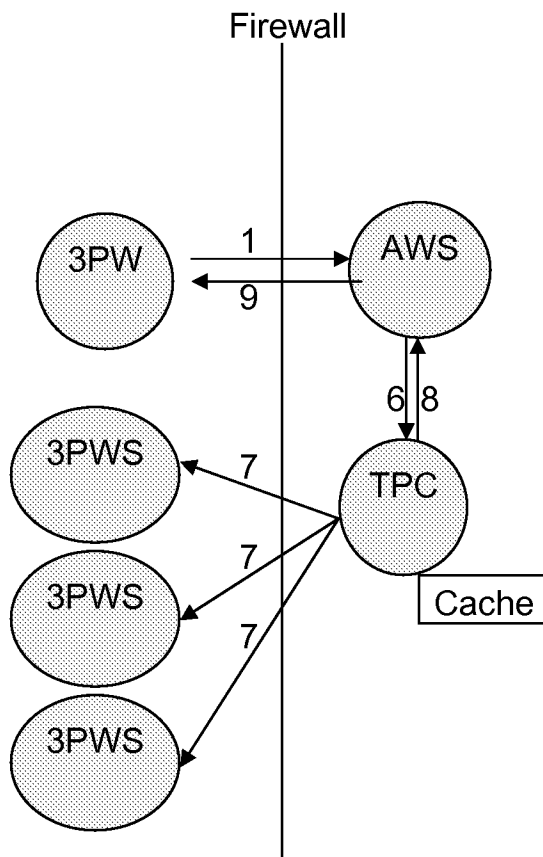


Summary:

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- I. 3PW uses our website or our AWS API to find a service that they would like to subscribe to. Services will be ASINs in our catalog.
- II. 3PW enters information necessary to purchase access to use the service. The information that is entered will go through an Amazon.com order pipeline.
- III. After the transaction is completed, 3PW is given a Transaction ID and provided with all of the necessary information needed to make requests for data related to the service that they subscribed to.

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Summary:

- I. 3PW, using the WSDL and/or request structure necessary to retrieve the information for the services that they have subscribed to, makes a request to AWS. Request will pass a Transaction ID along with the service call.
- II. AWS parses the request. Stripping out the developer token, Transaction ID, and the subscribed service command
- III.
- IV.
- V. AWS receives the message . If it is told to return an error message to the requestor, then it formats the response and sends it back to the requestor. If it is told that the request is valid, then it runs multiple service calls for data in parallel.

- 5
- VI. If the information that the developer wants is only accessible from a 3PWS, then AWS makes a call to the TPC with the necessary parameters.
- VII. TPC either grabs data from cache or it makes a request to the 3PWS's. The 3PWS's return xml data that can be parsed before sending back to AWS.
- VIII. TPC sends back an XML object to AWS.
- IX. Taking all of the data that it has retrieved on behalf of the requestor, AWS formats a response and sends it to the requestor.
- 10 X.
- XI.
- 15 XII.

B. Website GUI's

Summary:

- 20 I) Your Account Integration
- a. Payments, Metering, and Usage
- i. 3PSPs
- 25 1. 3rd Party Service Providers should be able to come to the Your Account Section of the website and find a new link called "My Registered Services"
- 30 2. "My Registered Services" should be a link into the Developer Portal vs. being a part of the normal Your Account Page.
3. After clicking on the "My Registered Services" link, they should be presented with a GUI describing all of the services that they have registered
- 35 a. Total number of requests should be displayed
- b. Total number of subscribers should be displayed
- c. Total number of associates should be displayed
- d. Total revenue earned should be displayed
- e. Total revenue share / fees to Amazon should be displayed
- 40 f. A link to all of the known websites / applications that use the service should be displayed
- g. A link to the service's detail page should be displayed
- h. Total number of Sev-1 notifications sent and received should be displayed.
- 45 ii. 3PWs
1. 3rd Party Websites and subscribers should be able to come to the Your Account Section of the website and find a new link called "My Service Subscriptions"

2. "My Service Subscriptions" should be a link into the Developer Portal vs. being a part of the normal Your Account Page.
 3. If the 3PWS does not follow this link and view their transaction history, they should be able to see their subscriptions, similar to how the HS currently is displayed
 - a. Transactions should be treated and displayed just like any other purchase.
 - b. Should display the purchase date
 - c. Should display the amount paid
 - d. Should display the number of requests to the service used
 - e. Should display the short description of the rules of use of the service
 - f. If the subscription is about to end, there should be a warning or alert message describing what to do.
 - g. Should display a "re-charge" button for quick subscription renewal.
 4. After clicking on the "My Service Subscriptions" link, they should be presented with a GUI describing all of the services that they have subscribed to
 - a. Should display the purchase date
 - b. Should display the amount paid so far
 - c. Should display the total amount of the service
 - d. Should display the number of requests to the service used
 - e. Should display the short description of the rules of use of the service
 - f. If the subscription is about to end, there should be a warning or alert message describing what to do.
 - g. Should display a re-charge button for quick subscription renewal
 - h. Should display average response time from service
- II) Activate/Deactivate My Services
- a. For 3PSPs
 - i. Service providers should be provided with an area within their "My Registered Services" area to deactivate the ability to take new subscribers.
 - ii. Service providers not able to deactivate services completely for a 30 period of time.
 - iii. After 30 days of not taking any new subscriptions, the service owner can then notify us that they no longer want existing subscribers to have access to their API
 - b. For 3PWs
 - i. Subscribers can always deactivate their subscriptions
 - ii. When their subscription is deactivated, they will owe the amount that they have consumed up to that point. Any balance will be applied to either their other service balances or charged directly to their account.

- iii. Service will not disappear from their "My Service Subscription" area.
 - 1. Services will be depicted as "inactive"
 - 2. All usage and metrics will still be visible up to the point of deactivation.
 - iv. Subscribers will pay to reactivate their services
 - 1. Usage after reactivation will appear as a new line item under the reactivated service
 - 2. Metrics and usage will not blend with old data.
- III) Configure My Requests/Response
 - a. In order to allow developers to consume the registered services, we will provide them with the documentation for how to invoke these services.
 - b. This invocation language will be called AWSL and be declarative
 - c. We will provide subscribers with an interface / tool that helps them generate AWSL scripts and test them.
 - d.
- IV) Add/Remove/Modify New Services
 - a. 3PSPs will be given an interface to add new services
 - i.
 - 1. 3PSPs host their service on their own website or domain
 - 2. 3PSPs provide some form of XML over HTTP or SOAP interface for Amazon to access
 - a. xml/http requires a well documented Schema
 - b. SOAP interface requires a well documented WSDL
 - 3. 3PSPs provide a terms of use or agree to extend a generic one provided by Amazon.com
 - 4. 3PSPs set a subscription charge for access to their service
 - a. per request
 - b. flat fee per month
 - c. flat fee per other period of time
 - 5. 3PSPs provide detailed service descriptions about the services that they are trying to register. This data will be used to create a compelling detail page for the service
 - 6. 3PSPs provide a bank account so that we can transfer money earned from their subscriptions
 - b. 3PSPs will be given an interface to remove new services
 - i.
 - c. 3PSPs will be given an interface to modify their Service description, terms of use, API, WSDL, Schemas, etc.
 - i.
- V) Refunds Disbursements
 - a. 3PSPs will be given an interface to refund money received from a 3PW
 - b. Refunds and adjustments via this interface can be applied to charges that haven't been applied to the 3PW account yet
 - c. Adjustments can take the form of the total number of requests made to the service
 - d. Adjustments can take the form of "dollar amounts" associated with the 3PWs use of the service

- e. Adjustments can be made across more than one 3PW with a single click of a button, regardless of whether or not the adjustment is request of dollar based.
- 5 VI) Service Registration Pipeline
 - a. 3PSPs have an Amazon.com Account
 - b. 3PSPs will be given an interface to add new services
 - i.
 - 1. 3PSPs host their service on their own website or domain
 - 10 2. 3PSPs provide some form of XML over HTTP or SOAP interface for Amazon to access
 - a. xml/http requires a well documented Schema
 - b. SOAP interface requires a well documented WSDL
 - 15 3. 3PSPs provide a terms of use or agree to extend a generic one provided by Amazon.com
 - 4. 3PSPs set a subscription charge for access to their service
 - a. per request
 - b. flat fee per month
 - 20 c. flat fee per other period of time
 - 5. 3PSPs provide detailed service descriptions about the services that they are trying to register. This data will be used to create a compelling detail page for the service
 - 25 6. 3PSPs provide a bank account so that we can transfer money earned from their subscriptions
- VII) Notification / Alerts Interfaces
 - a. Under the My Services section, there will be an area to manage notifications and alerts
 - 30 i. Web Interface that provides 3PSPs to enter their notification email addresses
 - 1. Interface can accept 3 email addresses
 - 2. Email address can be mobile email addresses that are connected to pagers and phones
 - 35 ii. 3PSP can choose to notify all or some of their subscribers when an outage occurs
 - iii. 3PSP can configure notifications to occur based upon usage thresholds
 - iv. 3PSP can configure notifications to occur based upon a failed SLA
 - 40 b. Under the My Service Subscriptions section, there will be an area to manage notifications and alerts
 - i. Web Interface that provides 3PWs to enter their notification email addresses
 - 45 1. Interface can accept 3 email addresses
 - 2. Email address can be mobile email addresses that are connected to pagers and phones
 - ii. 3PWs can configure notifications to occur based upon an outage
 - iii. 3PWs can configure notifications to occur based upon usage thresholds
 - 50 iv. 3PWs can configure notifications to occur based upon a failed SLA

C. **Modifications**

Summary:

I) Features and Services

a. AWSL Interpreter

- i. This piece of code will take a XSL document as its input.
 1. Example of the URL that would be used to call an XSL document with AWSL embedded within it
- ii. AWSL located in the XSL document will be identified and parsed.
- iii. Based upon the logic contained in the AWSL, Onca will either call the following services serially or in parallel with the supplied arguments and parameters.
- iv. Example of an AWSL Document:

```
<AWSL>
  <Request>
    <Service>
      <Name>Yes</Name>

      <Action>http://www.yes.net:8080/yesserver/azserver.jsp
</Action>
      <Method>get</Method>
      <Header></Header>
      <Body></Body>
      <Params>
        <azid>12345</azid>
        <city>15</city>
        <radio>KNDD</radio>
      </Params>
    </Service>
    <Result>
      <Asin>/Yes/SONGLIST/ITEM[1]/ASIN</A
sin>
      <SongTitle>
/Yes/SONGLIST/ITEM[1]/SONG[1]</SongTitle>
      <Artist>/Yes/SONGLIST/ITEM[1]/ARTIST[
1]</Artist>
      <ProductName>\$SongTitle by
\$Artist</ProductName>
    </Result>
  </Request>
</Request>
  <Service>
    <Name>AWS</Name>
```

```

5         <Action>xml.amazon.com/onca/xml3</Action>
        <Method>get</Method>
        <Header></Header>
        <Body></Body>
        <Param name="AsinSearch"
10         value="\$Asin"/>
        </Service>
        <Result/>
10    </Request>
    </AWSL>

```

In the above AWSL, the following is happening:

- 15 1. The AWSL snippet is included in a XSL document hosted by the developer.
2. Two Service Requests are being defined. The first service is labeled "Yes" and the second is labeled as "AWS"
- 20 3. Both service requests have actions defined. These are the urls that the TPC service will query, with the parameters that the developer can specify for Header, Body, and Method elements. Also, the developer has the option of specifying a set of name/value pairs that will be passed in the event of a GET request.
- 25 4. After the Service requests the data, an XML object is created and mapped to the labels that the developer specified. In this case, "Yes" and "AWS".
- 30 5. Using XPATH, the developer can create variables and use conditional logic. In this case, the developer specifies values from the resulting "Yes" query for Asin, Artist, SongTitle, and ProductName.
- 35 6. Since the Service Request for "AWS" depends upon a variable that is set by "Yes", the calls will be chained. If the developer had passed in a name value pair for "Asin", then the requests would have been done in parallel. Conversely, if the developer had passed in values for "azid", "city", and "radio", then the values listed in the AWSL should be overwritten.

- 45 iv. Example of what the Response would look like for the AWSL above

```

50 <?xml version="1.0" encoding="UTF-8"?>
    <TpcResponse
    xmlns:xsi="http://www.w3.org/2001/XMLSchema-
    instance">
    <Args>

```

```

5      <Arg value="http://aws-online-
101.amazon.com/xsl/td/2c.xsl" name="f" />
      <Arg value="BECK " name="Artist" />
      <Arg value="LOSER by BECK "
15 name="ProductName" />
      <Arg value="B000003TB2 " name="Asin" />
      <Arg value="LOSER " name="SongTitle" />
      </Args>
      <Yes>
10 <SONGLIST REQUESTER="AMAZON" AZID="12345">
      <ITEM SID="7018337">
      <TIME>14:24</TIME>
      <DAY>10/04</DAY>
      <RADIO>107.7</RADIO>
15 <STATION>KNDD</STATION>
      <CITY>15</CITY>
      <SONG>LOSER</SONG>
      <ARTIST>BECK</ARTIST>

20 <ARTIST_PROMPT>http://www.yes.net/waves/adrien
ne/thirteen/beck_____ar000x_8k.wav</ARTIST
_PROMPT>

      <SONG_PROMPT>http://www.yes.net/waves/adrienne
25 /four/00720642463420sn001x_8k.wav</SONG_PROM
PT>

      <CD_PROMPT>http://www.yes.net/waves/adrienne/fo
ur/00720642463420al000x_8k.wav</CD_PROMPT>
30 <WRITE_TIME>Sat Oct 04 17:24:40 EDT
2003</WRITE_TIME>
      <ART.COMID>3957</ART.COMID>
      <TICKETSNOW.COMID></TICKETSNOW.COMID>
      <ASIN>B000003TB2</ASIN>
35 </ITEM>
      <ITEM SID="7258249">
      <TIME>14:20</TIME>
      <DAY>10/04</DAY>
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40 <STATION>KNDD</STATION>
      <CITY>15</CITY>
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      </ITEM>
      <ITEM SID="null">

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 <CITY>15</CITY>
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 <ARTIST>BLACK REBEL MOTORCYCLE
 CLUB</ARTIST>
 10 <ARTIST_PROMPT></ARTIST_PROMPT>
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 <WRITE_TIME>Sat Oct 04 17:17:24 EDT
 15 2003</WRITE_TIME>
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 25 <ARTIST>LINKIN PARK</ARTIST>

 <ARTIST_PROMPT>http://www.yes.net/waves/adrien
 ne/103/linkinpark____ar000x_8k.wav</ARTIST_PRO
 MPT>
 30
 <SONG_PROMPT>http://www.yes.net/waves/adrienne
 /120/00093624775522sn008x_8k.wav</SONG_PROM
 PT>

 35 <CD_PROMPT>http://www.yes.net/waves/adrienne/1
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 <WRITE_TIME>Sat Oct 04 17:11:54 EDT
 2003</WRITE_TIME>
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5 few songs, like Crocodile Rock and Yellow Brick Road,
 but I wasn't a huge fan. This CD, although it is skewed
 toward the newer stuff, has enough pre - 1988 (when
 I bought my first EJ CD - Reg Strikes Back) music to
 make me realize I need to complete my collection with
 some Greatest Hits CDs. <P>The songs are
 gorgeous. Love songs are ususally sappy and
 pointless, but the ones here aren't. Elton finds every
 10 bit of soul and depth in them and sings them for all
 they're worth. The musicianship on the album is
 equally top calibre. There's a reason this guy's been
 around for so long -- he's a genuine talent who speaks
 to people of all ages. I love listen to this CD after a
 hard day. It helps me unwind. Makes perfect
 15 background music, and the songs are great to sing
 along to. <P>So why not 5 stars? The two new
 songs, and the two Lion King songs, while good, aren't
 quite the calibre of some of the other pieces. Still, if
 you consider yourself a fan of mellow music in general,
 20 or Elton John in particular, you can't go wrong with
 this one.</Comment>
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 25 <Summary>A Mellow Best Of Elton John
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 some of Elton's most beloved tunes from the 1970's,
 1980's and 1990's, featuring his collaborations with
 30 Bernie Taupin and Tim Rice. If you're looking for an
 essential Elton John CD, then this might be it, though
 frankly, you'd be missing a lot of his great material.
 Among the highlights on this collection is his live
 version of "Candle In The Wind" from his 1980's live
 35 album produced in Australia. Not to be missed either
 are his tunes with Tim Rice, "Can You Feel The Love
 Tonight", and especially, "Circle Of Life". Given the
 mellow nature of these selections, I am a bit surprised
 that neither of his hits with lyricist Gary Osborne,
 40 "Little Jeannie" and "Blue Eyes", appear in this
 compilation.</Comment>
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 45 <Summary>Good for the Casual
 Fan</Summary>
 <Comment>This is indeed a love song
 compilation, but it's appealing because of the territory
 covered. Classics like "Daniel" and "Someone Saved
 50 My Life Tonight" sit alongside more recent hits like
 "Can You Feel The Love Tonight" and "The One," and
 the remake/George Michael duet "Don't Let The Sun
 Go Down On Me" is chosen over the original. Hits from

the 1990's like "Believe," "Blessed," and "Circle of Life" hold up well in this environment, although the two songs new at the time ("No Valentines" and "You Can Make History") are distressingly mediocre. That said, this is a very good starting point for younger fans who've climbed aboard the Elton bandwagon recently...I caught him in concert on his solo piano tour a couple of years ago, and there were more teens than I would have expected. If you fall into that category, start here...then dig into his classics from the early 1970's.</Comment>

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 30 <ProductDescription>With her much-
 anticipated debut, ex-ballerina Vanessa Carlton more
 than makes good on the promise of her first single, "A
 Thousand Miles." Augmenting her classical training
 with a broad range of pop she soaked up playing New
 35 York City clubs and listening to classic rock in her
 father's car, <I>Be Not Nobody</I> finds the
 phenom decorating her fierce piano playing with
 orchestration, guitars, and percussion galore. "Prince"
 is sizzling and funky, while "Ordinary Day" displays a
 40 majestic grace and "Unsung" is a stomping blues-bar
 breakdown. Comparisons to Fiona Apple and
 <I>Little Earthquakes</I>-era Tori Amos
 (especially on the haunting "Sway" and "Wanted") are
 inevitable and justified. Yet Carlton sounds fresh, even
 45 on a menacing interpretation of the Rolling Stones'
 "Paint It Black." With the exception of the anemic
 ballad "Pretty Baby," this impressive debut makes a
 strong case that a new star has emerged. <I>--
 Annie Zaleski</I></ProductDescription>
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 <Summary>Vanessa Carlton-- Pianist/Ballerina</Summary>
 <Comment>Vanessa Carlton shows off her talent in this CD which, in my opinion, tops all others. She shows many sides of her- happy, moody, dark, light, etc. She is a singer/songwriter. She also composed all of her songs, except for Paint it Black. Paint it black is her only song she did not write, but is a Rolling Stones song which she covered.

Vanessa shows us that she is truly talented, and isn't willing to give up things for her career.
 <P>Ordinary Day- light, happy. 5 stars.
Unsung- dark-ish, rock 'n' roll. 3 stars.
A Thousand Miles- ya gotta love her award-winning single. 4 stars.
Pretty Baby- It is a song of yearning. 3 stars.
Rinse- dark, but full of her talent. 4 stars.
Sway- very good, happy, a good beat. 5 stars.
Paradise- sad, slow, but extrmely emotional. 5 stars.
Prince- another rock 'n' roll type. Slow in the middle, but otherwise fast. Takes a while to get in to. 5 stars.
Paint it Black- her Stones cover. She did an excellent job with it. 5 stars.
Wanted- Very good. She doesn't express her usual, wonderful vol skills in this song, though. Background music is very fast. Vocals are slow. 4 stars.
Twilight- the best. Happy, slow, inspirational. A powerful song. 5 stars.</Comment>
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when I don't do that my reviews are boring. I bought
 this CD a month ago (I think to this exact day
 actually!) after having craved it for months since
 seeing Vanessa perform A Thousand Miles live as part
 of a various-artist concert. I must admit, it hasn't been
 in my CD player much, but then I have so many
 CDs...however, that doesn't mean at all that it's not
 worth your money. ORDINARY DAY is a great, uplifting
 song that's extremely well-crafted and listenable. A
 THOUSAND MILES, need I say more?, is absolutely
 beautiful and the piano solo is amazing. In fact, the
 piano skills Carlton displays throughout the disc is
 already worth owning this album for. SWAY has the
 best musical backdrop on the disc, and is tied with A
 THOUSAND MILES for best track on the disc. WANTED
 is just as haunting and profound as SWAY, and
 TWILIGHT is a brave acapella-like showcase of her
 voice to close the disc. The rest of the songs are pretty
 much filler, or filler-like, but it hardly matters because
 the others are well-worth your money. (I'm just glad
 there is the track-skip feature so I can make "Unsung"
 just that.) One complaint though, and there really is
 just one: What is it with her voice? It is good and has
 great range, but you have to admit for a 21-year-old
 she still sounds like she has the voice of a teenage girl
 whose voice hasn't quite matured yet. Example: "My
 heart, your hayyyennned" from SWAY. Oh well, from
 time to time there are things you've just gotta look
 past, and with Vanessa it's not that hard. At least she
 leaves room for improvement on her second effort, as
 do most new artists. All and all, though not without its
 slumps, BE NOT NOBODY is still a great, catchy disc,
 and it is an absolute essential album for anyone who
 likes great piano performances! </Comment>
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<Summary>They are the best</Summary>

<Comment>I think this album offers alot to anyone, whether they've heard any of BUOS songs or not. I only heard one of their songs in America last summer, and I was hooked. I've got all of their albums and, frankly, they are all great. I love "Home", with it's deep and meaningful song lyrics, that not many bands today have. My favourite song is Nora. Everytime I listen to it, it just gets better. I would recommend any of BUOS's albums, whether you've heard their music or not. If you just want music to relax to, or you want songs that you can relate to, buy their albums. They are, quite simply, great.</Comment>

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<Summary>Great lyrics, great music and a great message.</Summary>

<Comment>This is the Blessid Union of Souls first CD and I can almost guarantee that everyone has heard their hit single I Believe. It not only topped the charts, but hit the hearts of everyone who listened to it. If you enjoyed that single this album is full of more diverse songs, and all of them are great. From the faster "Oh Virginia" to the best song on the CD "Nora" this CD has it all. Their last song is "Lucky to be Here", and trust me, I think that we are lucky to be here, not them, so we can hear their great music, and even better message.</Comment>

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<Summary>Inspirational music</Summary>

<Comment>This CD is absolutely wonderful. Pretty much every track is fantastic but my favourite is "I Believe", which was used in a tribute for 9/11. I definitely recommend this album!</Comment>

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 like a suave, less jumpy alternative to Ricky Martin on
 this mostly English-language album. Having already
 introduced itself to the pop mainstream with the salsa-
 tinged single "I Need to Know," <I>Marc
 15 Anthony</I> offers several other obvious crossover
 hits, ranging from the Rodney Jerkins-produced Latin-
 funk fusion of "She's Been Good to Me" to the lovelorn
 midtempo ballad "When I Dream at Night." However,
 Anthony's agreeably keening voice is too often applied
 20 to the sort of colorless adult-contemporary material
 typical of Michael Bolton and Mariah Carey mainstay
 Walter Afansieff, who produces or coproduces three
 tracks here. The result is often more interesting in
 sociological terms--Anthony fans who, like the star,
 were born to Latino parents in America are as sure to
 eat this disc up as his new Caucasian admirers--than
 in musical ones. Ain't that America? <I>--Rickey
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 Balladeer...</Summary>
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 35 Ricky Martin, Enrique Iglesias and Marc Anthony for
 the looks, then the guy has no winning chances...but if
 you talk about talent and passion, it's whole different
 game.
It was my ex boyfriend Sakis that
 introduced me to Marc's music.
I enjoyed it
 40 rightaway.
WHEN I DREAM AT NIGHT and YOU
 SANG TO ME remember me of some great times i
 spent in greece, real nice ballads.
As most of
 the rest of the material contained on this
 album.
AM I THE ONLY ONE and LOVE IS ALL
 45 are poignant to say the least.
But Marc comes
 from Puerto Rico, where salsa music is still well and
 alive.. there he goes and you get I NEED TO
 KNOW...simply irresistable tune when you're on the
 floor.
Sony alligned such producers as Walter
 50 Afanasieff, Ric Wake, Dan Shea and Cory Rooney (big
 in the business after his successful partnership with
 J.Lo) and Rodney "Darkchild" Jenkins for his english
 debut.
Jenkins is actually the only one who fails

in here, trying to mix salsa rhythms with hard
 electronic stuff...ultimate mess!
I'll say it from
 the heart...when you are in love there is nothing like a
 ballad to cement a bond between you and the one you
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Marc will surely provide a wide choice in
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 <Summary>Marc is simply the
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 <Comment>Hey I think Marc's new
 album is the best. Marc is definitely the headliner for
 Latin Pop music. He flows with serene beats and a
 captivating voice. He truly inspires me and offers some
 hope to the otherwise tasteless artists we have to
 contend with in today's market. He makes me want to
 fall in love all over again. My one comment is to the
 reviewer: I can't believe you would compare Marc with
 Michael Bolton and I REALLY CAN'T BELIEVE you would
 be so ignorant as to say that Mariah's music is
 colorless. In fact, I would say that if Marc is taking
 after this international superstar, then he's on the
 right track! But it's obvious that he isn't because their
 music is so different and it's very obvious that you
 don't know what you're talking about. Mariah Carey's
 music is more R&B and hip-hop and Marc comes
 from a strong influence of Latin soul. With this album,
 he's creating an entirely different style and completely
 redefining the crossover arena! That's what makes him
 special. Overall, I think Marc's new album is truly a hit
 and everyone should get their copy soon!</Comment>
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 <Summary>Most passionate unique
 Latin sensibility.</Summary>
 <Comment>This album was long over
 due for Marc Anthony, who until now has resisted the
 lure of the american pop scene. His music has always
 been authentic and steadfastly traditional, garnering
 respect from salsa aficionados. The release of this first
 English-speaking album is huge to say the least. He is
 not just another crossover by any means. The only
 thing he shares with fellow Latin recording artist Ricky
 Martin and Jennifer Lopez is a similar cultural heritage.
 Anthony is a passionate singer and it shows in his
 music, both english and spanish. This album is proof of
 that. He melded his urban American upbringing with
 his Puerto Rican roots to bring us a unique Latin
 sensibility. So if you like music that can make you
 move your feet, and touch your heart in a unique
 passionate way, here it is. Hold on to your seat for a

ride you won't soon forget. A must have CD. To make your experience even better I recomend his first two albums, Otra Nota and Todo a Su Tiempo, which went platinum.</Comment>

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b. Access Control Service (ACS)

- i. Onca will pass a Developer Token, a service ASIN, a Order ID, and/or a HMAC which will be used to identify the customer requesting access to our services
- ii. The ACS will connect to new database tables
- iii. These tables will contain information necessary for the ACS to respond to Onca with a determination as to whether or not to provide access to the 3PW requestor
- iv. ACS should be a pub sub service, with response times in the tens of milliseconds
 1. ACS should rely on a large cache of data and be spread across numerous boxes.
 2. All ACS servers should share data through the normal pub/sub model

c. Metering Service

- i. This service should record and supply the number of requests made to a particular service
- ii. Data will reside in the database tables that the ACS queries
- iii. Design could be that the Metering Service is rolled up into the ACS service
 1. The service should record successful and failed retrieval of data
 2. The service should record successful and failed retrieval of data
- iv. Service should be able to record data based upon each service called within a single request from a 3PW
 1. AWSL will allow 3PWs to call numerous services in a single request.

- 2. Metering service will get this information after Onca has completed the delivery of data to the 3PW
- v. Service is similar to the service that we have for the Ad Server and AWS today, but with service-specific modifications

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D. Access Control Service for Metering / Throttling

Summary: The ACS will enable Onca to determine whether or not a subscriber has access to a single or group of registered services

I) Definition / Problem Statement

- a. Access Control is important .

5 start providing access to registered services, we As we create
a Rights/Rules/Throttling mechanism. ACS will provide this
capability for the Web Services Marketplace.

- 10 II) Rights
III) Rules
IV) Throttling
V) Security / Tokens
VI) Terms of Use
VII) Billing

E. Transactional Collector

Summary: This service records and manages billing associated with service subscriptions and usage

- 20 I) Definition / Problem Statement
a.

Now that we are going to provide a mechanism
for 3PSPs to monetize their offerings, we have a service
created that will calculate charges and manage recharging
subscriptions.

- 25 II) Data Store
III) DB Design & Tables
IV) Reliability Concerns

F. Third Party Content Service (SOAP / XML via POST)

30 **Summary:** This service allows Onca to connect to remote services and retrieve
information.

- I) Definition / Problem Statement
a. In order to retrieve data from services
that we do not have control over, we have an application that will
connect to services that exist outside of our firewall.

- 35 we now will need to be able to
cache the returned data and respond to a very aggressive SLA.
II) XML Form Requests and Responses
III) SOAP Requests and Responses
40 IV) Script Format
V) Chaining Logic

G. Billing Models

Summary: Multiple Billing Models may attract a wide variety of developers.

- I) Pre-pay
 - a. One time payment for access to a service. In this case the charges are treated just like any other purchase handled by our website and order pipeline.
 - b. Multiple payments for access to a service over the course of set periods of time.
 - i. Daily, monthly, quarterly, and yearly transactions
- II) Points
 - a. One time payment for a set number of transactions associated with a wide set of agreed upon services.
 - b. One point can be applied to any service call that accepts the point system
 - c. Disbursements become very complex, handled by a combination of the access controller and metric services
 - d. Similar to the "Slots" model for points, but based on a per transaction basis per service vs. impression model.
- III) Invoice
 - a. "Dining" model, where customer consumes all the services for a month and Amazon creates a "bill" for usage.
 - b. hold an auth. on credit card in order to qualify for this feature.
 - i. Auth amount can be variable depending upon the types of services that 3PWs want to have access to.
- IV) Aggregated Billing
 - a. We don't charge 3PWs' accounts on a per transaction basis.
 - b. We will combine multiple service charges and apply charges based upon several criteria
 - i. Time since last transaction
 - ii. Charge threshold has / has not been met

H. Allowing Services to be Searchable via Website and AWS

Summary: All registered services should be available via AWS via our regular API

- I) Search Team
 - a. Allow us to create a new search index
 - i. Search index should be called "aws" or "services"
- II) Extending to AWS
 - a. All indexes created by the Search team should be accessible via AWS API
- III) Versioning & Developer Support
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I. PTD for Services – New Index, new Schema

Summary: All services will use a new EZDPC PTD so that 3PSPs can register their services on our platform

- I) Generation of new PTD for Web Services
 - a. Work with EZDPC team to determine how to get a new PTD created
 - b. Work with EZDPC team to determine how to get the PTD deployed to devo and production
 - c. Work with EZDPC team to determine how to store WSDL, schemas, service descriptions, and pricing in Item Master
- II)
 - a.

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Summary:

- I) Your Account
- II) Detail Pages
- III) Browse Pages
- IV) Refunds
- V) PubSub Data on popular Services

K. Metrics: Internal and External Facing

Summary:

- I) Service Owners
- II) Developers
- III) Consumers of Applications

L. SLA / Operating Agreement

Summary:

- I) Scaling
- II) Architecture Modifications
- III) Caching Concerns
- IV) DB Access
- V) Data Restoration

M. Contract Engine

Summary:

- I) GUI for Sellers
 - a. Registration
 - b. Editing
 - c. Management
- II) GUI for Developers
 - a. Subscriptions

- III) b. Help / Support
Logic & Algorithms
- IV) a. Ideas

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Summary:

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Summary:

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- I) EZDPC / Item Master
- II) Search
- III) Browse
- IV) COW / PTS
- V) Legal / Biz Dev

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